**Name: Novnil Kumar Singh**

**Email:** [**novnilsingh@gmail.com**](mailto:novnilsingh@gmail.com)

**Java Full Stack Developer**

**Phone:708-506-0738**

**PROFESSIONAL SUMMARY**

* Over 8+ years of software development experience using **JAVA/J2EE** technologies.
* Experience in building UI technologies like **HTML5, CSS3, Bootstrap4** and scripting languages like **JavaScript, JQuery, AJAX, DOM, AngularJS, Angular2, Angular4 and ReactJS**.
* Strong experience in using **JSP’s, JSTL, Struts Tag Libraries, Tiles, HTML5, CSS3, Bootstrap3 and Bootstrap4** for developing Front-end web pages.
* Developed web applications by implementing **Model View Control (MVC)** architecture.
* Hands on experience in developing **Web User Interface(UI)**using **HTML, CSS, JavaScript, React Js and Angular Framework**that follows W3C Web Standards and are browser compatible.
* Experience in building applications using various technologies like **Java, spring, Hibernate, EJB, JPA, JSF, Struts, Servlets, JSP**hands on experience on**JAVA8.**
* Good knowledge in **OOPS** concepts, **OOAD, UML.**
* Strong experience in using spring models like **Spring MVC, Dependency Injection, JDBC, JTA, Spring Rest, Spring Boot, Spring Microservices, Spring Eureka, Spring Netflix.**
* Experience in developing **Spring JDBC Templates** and **Spring Rest Templates.**
* Implemented various design patterns like **DAO, DTO, Singleton, Prototype, Service Locator, MVC** using Java/J2EE technologies.
* Experience in **Service Oriented Architecture** and **Web Services** using **SOAP** and **REST**.
* Expertise in **XML** technologies like **DTD/Schemas, DOM, SAX** and **XSLT.**
* Experience using SOA which include **Universal Description and Discovery Integration (UDDI)** and **Web Services Description Language(WSDL)** using **SOAP** protocol.
* Experience in developing and deploying the **Microservices** applications in **Pivotal Cloud Foundry (Paas)** cloud platform and CF command line interface.
* Experience in **Amazon Web Services** knowledge of **AWS** services like **EC2**, **S3**, **Elastic Beanstalk**, **RDS**, **VPC**, **Direct Connect**, **Cloud Watch**, **Cloud Formation**, **IAM** and **SNS**.
* Experience in using **Amazon Web Services** and **AWS SNS/SQS** for delivering messages.
* Deployed the Application in **Docker** container and made easily accessible at run time using **Cloud Foundry** and other cloud services like **AWS, Netflix, Eureka, Spring Hystrix** as fall back method **Spring Ribbon** for load balancing
* Experience in Database Modeling, design and development of **PL/SQL, Stored Procedures** and **packages** in relational databases **Oracle 10g/11g, MySQL, SQL Server 2000.**
* Experience in managing and maintaining **Oracle** and **NoSQL** databases in production domain.
* Experience with build tools like **Maven, CICD-ANT** and logging tools like **Log4J**
* Experience in unit testing using **Karma, Jasmine, Junit** and integration testing using **Selenium, Continuum, Hudson, Jenkins** and **Apache Camel**.
* Experience in deploying application on **Tomcat, Web Sphere, WebLogic** and **JBoss** servers.
* Experience in document preparation includes **Requirement Specification, Analysis, Design Documents, Test cases** and **User Training Documents** and **Technical Help Documents.**
* Experience working in **SDLC methodologies** like **Agile Scrum, RUP** and **Waterfall Model**
* Experienced in Development, Testing and Deployment of various domain applications on Windows and UNIX platforms using IDE’s such as **Eclipse, NetBeans, Spring Test Suite, IntelliJ.**
* Technically Savvy in using multiple databases like **Oracle,SQL Server**, **MySQL**, **DB2, NOSQL DB (mongoCassandra).** Involved in converting **Cassandra/SQL** queries to Spark transformations using **Spark RDDs**
* Good experience in integration tools and frameworks like **Spring Integration, Mule ESB, Apache CXF, Apache Kafka and Apache Camel** to integrate and standardize the enterprise application technologies with existing JVM environment.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Web Technologies | HTML5, CSS3, Bootstrap, JavaScript, jQuery, AJAX, Angular, AngularJS, Angular 2, Node Js, React Js, Servlets, JSPs, EJB, JNDI, JMS, XML, XSLT, XSD, JSF |
| Java/J2EE Technologies | Servlets, JSP’s, Struts, JSF |
| Frameworks | Spring Dependency Injection, Spring MVC, Restful Services, Spring Boot, Spring Eureka, Spring Netflix, Spring Boot |
| Database Technologies | Oracle, MySQL, DB2, MongoDB, Cassandra |
| XML Technologies | XML, XSL, XSLT |
| Web Services | SOAP, REST |
| Build tools | Ant, Maven |
| SQL Languages | SQL Queries, PL/SQL, Stored Procedures |
| Cloud Environments | Azure, AWS, Netflix, Eureka, Mesos, Kubernetes |
| App Server | Tomcat, WebLogic, WebSphere, JBoss, Glassfish |
| Methodologies | Agile, Waterfall, TDD (Test Driven Development) |
| Protocols | TCP/IP, HTTP, FTP. |

**PROFESSIONAL EXPERIENCE:**

**Client: Kroger - Cincinnati, OH**

**Jan 2017 – Till now**

**Role: Full Stack Java Developer**

**Description:**Kroger Digital is a highly innovative team situated in Kroger's own newly remodeled Digital Customer Innovation Center in beautiful Ohio. Kroger delivers Mobile, e-commerce and customer facing solutions that provide Kroger customers with world-class digital and mobile shopping experiences.

**Responsibilities:**

* Involved in **Agile SCRUM** methodology.
* Implemented a security module in **Angular** that integrates with the Spring security in the backend with Authentication and Authorization and defined various custom directives.
* Developed user interface with **HTML5, CSS3, SAAS, JSON, AJAX**, **Angular 4** and **Type Script**.
* Developed **SPAs**, components using **Angular 4** directives, controllers, view and routing, service modules.
* Implemented **Routing** and **HTTP modules** for navigation between the **components** and invoking the **Rest Services** using **GET, POST, PUT,** and **DELETE** methods.
* Analysis, design and development of Application based on **J2EE** using **Spring** and **Hibernate.**
* Used **Spring framework** for Model View Controller (MVC)and integrated with **Hibernate.**
* Used **Spring inheritance, Auto-wiring, Core Containers, ORM modules** for migration from **EJB** to **Spring, Spring Quartz** for scheduling tasks to generating reports and emails to clients.
* Developed logics using **Core Java** including **Collections, Multithreading and Exception Handling.**
* Implementing or exposing the **Microservices** to base on **RESTful API** utilizing, implementing the **Microservices** to base on **RESTful API** utilizing **Spring Boot** with **Spring MVC.** Worked on SOA Web Services using **SOAP** with **JAX-WS** for large blocks of **XML** data over HTTP.
* Used **Rest API** with **JAX-RS** for consuming Restful web services.
* Implemented Separate controller per form using **Spring MVC** components like Dispatch servlets, view resolver and Request mapping annotations and Rest Controllers annotations.
* Developed API using **AWS Lambda** to manage the code and run the code in **AWS**.
* Good experience with **Spring AOP, Spring Transactions, Spring Security, Spring Quartz** batch jobs. Used **Executor Framework** to deal with **Java Threads**.
* Working with **Java 8** features like **Lambda Expressions, Filters, Stream API, for Each()** method in Iterable interface, new **Date API, Predicates**and **Functional Interfaces**.
* Deployed **Spring Boot** based **Microservices** into **Docker** container using **Amazon EC2** services.
* Used **AWS cloud** watch in maintaining and monitoring of production and corporate storages.
* Developed and deployed applications in **Pivotal Cloud Foundry (Paas)** cloud platform.
* Experience with building **Docker** images and running them on **Docker container**.
* Streamlined and coordinated Configuration/Build/Release/Deployment/Process/Environment management across all the products in our Applications using DevOps.
* Used **Oracle** as backend database and integrated with Hibernate to retrieve Data Access Objects.
* Worked on packages to run using dynamic SQL and developed **UNIX Shell scripts**.
* Configured and used **Maven scripts** to deploy application in server.
* Integrated Spring DAO for data access with **Hibernate** to implemented CRUD operations
* Implemented Second level of caching using **Hibernate** configuration files, EHCache provider.
* Implemented **Hibernate join strategies**, to select elements from different tables in efficient way.
* Used **SQL, HQL and Hibernate** Criteria queries, depending on the complexity of the Object.
* Configured and administered **Jenkins** for **CI/CD** into **JBoss** Application Server
* Involved in preparing the test cases using **Junit** and **Easy mock** test case and in the testing phase.
* Implemented transactions using **XML, Web Services, JNDI and Multithreading Executor Services.**
* Designing and developed **Microservices** using (MEAN Stack) **Node.js, Mongo DB, Neo4J, Elastic** search on Cisco Private Cloud OpenStack Platform using **Express.js**.
* Working on **Microservices** to manage termination and methods that can produce a [Future](https://docs.oracle.com/javase/7/docs/api/java/util/concurrent/Future.html) for tracking progress of one or more asynchronous tasks. Experience in Building **Web Service** Contracts in **SOA Service Manager.**
* Implemented a metrics collections for the server by utilizing **Apache Kafka** to stream server-side events.
* Worked on **Drools** rule engine and exception rule engine for writing business rule validation.
* Used **Drools decision table** using excel sheets with a **Spring MVC** project.
* Have knowledge of managing and administering NoSQL database systems using Azure table

**Environment:** Java, J2EE, Spring MVC, Hibernate, Rest web services, Angular4, Spring 4.x, SpringBoot, Spring cloud, JSON, Maven, Junit, Hibernate, Oracle, JBoss, Docker, ECMA6, AWS lambda, Executor services, Microservices architecture, Netflix ZUUL, Swagger.

**Client: American Express - Phoenix, AZ**

**Jul 2015 – Dec 2016**

**Title: Java Full Stack API Developer**

**Description:** Description: American Express is a leading credit card company with a vast presence throughout the world. Worked as full stack java developer on a project that enables American express card holders to find restaurants, ATMs and hotels In their vicinity which accept American express cards.

**Responsibilities:**

* To analyze the root cause for a problem raised, and provide quick solution as soon as possible.
* Used **Agile Scrum** to manage the full life cycle development of the project.
* Developed application using **Spring MVC, Hibernate and Rest web services** on presentation layer, business layer is built using spring and the persistent layer.
* Used **Spring** configuration files, application context object for creating various factory objects.
* Hands on experience with **Spark** streaming to receive real time data using **Kafka**.**Hadoop** and Apache Spark Using **Scala**.
* Created **Spring MVC** components like Dispatch servlets, configure Request mapping annotation
* Used **Hibernate** with **JPA annotation** and created several persistent classes.
* Implemented **Spring MVC controllers** with annotations, validations and using model attributes to pass request from the presentation layer to helper classes in java.
* Developed and ensured service design Reference Architecture for in **SOA** Environment.
* Developed **DAO classes** with **JUnit** using **Spring DAO package** for data access manipulation.
* Developed **JMS** components to send messages from one application to other applications.
* Built EJB with Point-to-Point messaging functionality and MQ Series as **JMS** provider.
* Integrated **Spring** with **Hibernate** using configurations and implemented DAO layer.
* Extensively used **Hibernate** ORM in data access layer to write DAOs.
* Used **Spring Validation** framework to implement the server side validations and used **Ext JS** **AJAX** to get the data from the server asynchronously by using JSON objects.
* System analysis and deliver integration specification which includes interfaces exposed, technology and protocols used based on Oracle SOA suite of products mainly BPEL, Service Bus and **WebLogic** application server including **JMS** resources.
* Implementation of asynchronous workflow engine based on **JMS** and **EJB** entity bean.
* Experience in installation, configuration, Deployment and management of web and enterprise applications on BEA **WebLogic Server**.
* Taken care of complete **Java multi-threading** part in back end components.
* The web UI is implemented with DOJO JavaScript framework that includes drag-and-drop, tree and grid controls, and floating panes.
* Created different XML documents using **XML, XSD and XSLT**. Used Light DOM parser, and SAX parser for transforming the XML data.
* Oracle 11g used as backend, worked on SQL queries for persistence of Business Objects using **JDO** as **ORM**. Involved in creating different **SQL** scripts.
* Used **Maven** to build application and deploy on the server.
* Configured and created application log files using **Log4j** to trace application and **GIT** for version controlling.

**Environment:** Java, Spring Dependency Injection, Spring MVC, Hibernate, Rest web services, Angular, Junit, Spring IOC, Spring security, Spring Batch, JQuery, Backbone JS, Ext JS, Handlebar JS, Scala, IBM WebSphere, Oracle, Apache-Maven, Junit, Hibernate, JMS, WebLogic, WSDL-2, HTML, XML, XST, XSLT.

**Client: High Mark, Pittsburgh, PA**

**Aug 2014 – Jun 2015**

**Role: Java/J2EE Developer**

**Description:** HM Health -Solutions Inc. is a business unit of the Highmark Health enterprise which provides a comprehensive and integrated suite of solutions to optimize payer and provider systems for health insurance plans; Capabilities include: Enterprise Application Solutions, Business Process Management Solutions, Data Hosting Solutions, Infrastructure Management Solutions, and Print Management Solutions. Through an aligned independent relationship model, HM Health Solutions delivers significant value for its partners, including the delivery of increased speed-to- market capabilities, cutting edge enhancements and lower operational costs to help offset the ever-increasing pressures and challenges of today’s health insurance industry.

**Responsibilities:**

* Involved in various phases of **Software Development Life Cycle (SDLC)** such as requirements gathering, analysis, design, development, testing and production environments.
* Worked on **Agile Development Methodology** using Scrum **concepts**.
* Worked in developing Spring related backend services (For the flex to access the database).
* Implemented page specific controllers using **Spring MVC** components like @Controller, View resolver, dispatch servlet and calls respective helper classes.
* Implemented caching mechanism using **Spring cache**, configuration properties using EHcache.
* Implemented presentation layer of application using **HTML, CSS, JQuery and Ajax calls**.
* Implemented transaction management using **Spring declarative transaction management** and spring **AOP**.
* Implemented **Hibernate** Entity classes that map data base tables using Hibernate annotations.
* Implemented **Hibernate utility** classes that used as base implementation for DAO layer.
* Implemented **Hibernate second level caching** at hibernate level using EHcache provider.
* Implemented Search based queries using **Hibernate Criteria Query** interface.
* Implemented **Rest based web services**, implemented security using **JAX-RS** annotations to handle data formats and used http methods.
* Build **Maven** Scripts for the application deployment and integrated with **Jenkins** server.
* Involved in writing test cases, implement unit test cases using Junit and **mocking frameworks.**
* Deployed on JBoss 7.1 enterprise server with JBoss Native and Metro stack using doc: literal style web services.

**Environment:** J2EE, Spring framework, Spring MVC, Spring Boot, Hibernate 3.x, Angular JS, JQuery, JSON, JSF, Servlets 2.3, JDBC, AJAX, Jenkins, Multithreading, Web services, SOAP, XML, Microservices, SaaS, Java Beans, Net Tool, JQuery, JavaScript, Drools, Oracle 10g, WebSphere 7.0, Design Patterns, SVN, Apache Maven, JUnit, XSLT, HTML.

**Client: Bank of America, Charlotte, North Carolina.**

**Oct 2013 – Jul 2014**

**Role: Java/J2EEDeveloper**

**Description:** Bank of America is a multinational banking and financial services corporation headquartered in Charlotte, North Carolina, with "hub quarters" throughout the country. It is ranked 2nd on the list of largest banks in the United States by assets. This project is built primarily for customer lending group, which forms the base of home mortgage within Bank of America. CORE provides a flexible platform for users to manage and capture each details of the mortgage account. This system solves complexities for its users by handling sub processes and borrower's details created on the mortgage accounts. The system is built on top of Lending Grid (LG) applications and is a very accountable for its needs.

**Responsibilities:**

* Worked in **Agile Environment** and Iterative Development Process using **Scrum** concepts.
* Responsible for design and development of the front-end using **HTML JSP, CSS, JavaScript**.
* Designed and Developed complex UI screens using **HTML, CSS**, **AJAX**, **JSP**, **JQuery**, JavaScript for request management and search and filter modules.
* Developed Struts Forms, Action classes, performed action **mapping using Struts Config Xml.**
* Hibernate is used for ORM and perform CRUD operations with DB.
* Applied **J2EE design patterns** like Singleton, **Data Transfer Object (DTO), Data Access Objects (DAO), Front Controller** and **Adapter** during the development of components.
* Developed and deployed Action Classes and **JSP** for **Dynamic HTML** generation.
* Developed **SOAP** web services utilizing business logic for CRUD functionality and **Rest Easy** web services for creating reports and tested using **SOAP UI.**
* Implemented stateless **session beans** in business processing layer.
* Used **GWT** for compiling code written in JAVA to JavaScript code, write client-side application.
* Used XML parser APIs such as **JAXP** and **JAXB** in the web service's request response data marshalling.
* Implemented Graphical User Interface using **JSP, HTML, JSTL, CSS**, **JavaScript**.
* Implemented DAO layer and mapped data base tables with **Hibernate** Entities using annotations
* Created inheritance mapping and integrated with **Hibernate template** method calls.
* Developed reports in **Perl** for the end users.
* Used Custom **node.js** proxy used to simulate API responses before client implementation.
* Develop the **Perl** and **Shell** scripts to automate the finance billing file.
* Implemented **Spring ORM** for data persistence support for **Hibernate**.
* Built and edited **Spring-Hibernate** configuration file for subprojects.
* Used **SOAPUI** for **JAX-WS** and **JAX-WS API** for creating **XML**-based web services.
* Involved in writing **CSS** scripts and **JAVA** Scripts.
* Worked on Groovy Support with **Quark framework.**
* Used spring **JDBC** to connect database for web services, Worked On **Test Driven Development.**
* Deployed on **JBoss** enterprise servers with **JBoss Native, Metro** stack using document literal style web services.

**Environment:** Java/J2EE 1.7, JSP, Spring Boot, Angular.JS, Node-JS, CSS3 and JavaScript, XML, Eclipse IDE, Maven, Jenkins, ReactJS, Redux, Node JS, Express JS, NPM, Web pack, Dockers, Kubernetes, Cloud foundry, Jenkins, ECMS 6, JSX-react, AXIOS, MONGODB, Mongoose connection, NODE JS service, OPEN ID connection, OAUTH, HTML, CSS3.

**Client: ByteAlpha - Hyderabad, India**

**Nov 2011 – Sep 2013**

**Role: Java Developer**

**Description:** This project involves developing a J2EE based framework to support dynamic report creation from

various distributed databases. The framework supports dynamic PDF report generation using iText, an open source PDF generation library. The framework facilitates new report formats and databases by using xml configuration files.

**Responsibilities:**

* Responsible for design and development of **Web Application** using **Struts Framework** and written Action Classes, Form Bean Classes and configure the Application using **Struts Configuration file**.
* Did technical design to conform to **STRUTS (MVC) framework**.
* Wrote server-side programs by using Servlets and JSP.
* Designed and developed the **HTML** front end screens and validated forms using **JavaScript**.
* Made use of almost all **Object-Oriented concepts** like Inheritance, polymorphism and Abstraction.
* Application and user level configurations have been maintained by using **XML** Files.
* Implemented **MVC** using Struts Framework.
* Utilized **Servlets** to handle various requests from the client browser and send responses.
* Created and implemented **PL/SQL stored procedures, triggers**.
* Designing and documenting of the stored procedures.
* Coding Test Classes using **Junit** for unit testing, Performed functional integration system and validation testing.
* Implemented design patterns **MVC, Session Facade** for developing the application.

**Environment:** J2EE, JSF, XHTML, Bootstrap, JSON, JavaScript, Oracle, Spring framework, Spring IOC, java multithreading, Prime faces, Spring Batch, JAX WS, soap services, stored procedures in SQL server, Drools, Spring AOP, IBATIS, Hibernate, MySQL, PL/SQL, XML, WSDL, SOAP, SOAP UI, IBM WebSphere, JUnit, Web sphere Application Server, Tomcat.

**Client: Pilog India PVT LTD, India.**

**Jun 2010 – Oct 2011**

**Role: Jr. Software Developer**

**Project: E-commerce project**

**Description:**

Developed a web based application. The software was designed to provide a user-friendly interface with simple navigation features. The project used database to pull information on the products.

**Responsibilities:**

* Developed backend logic using Core Java including **Collections, Multithreading and Exception Handling.**
* Involved in various phases of Software Development Life Cycle (**SDLC**) on the application like Requirement gathering, Design, Analysis and Code Development.
* Implemented **Multithreading** feature for processing the requests to achieve high performance.
* Developed activities using **Core Java/J2EE, Servlets, JSP used for creating web application.**
* Implemented JDBC for database connectivity with **MySQL** Server.
* Worked with Spring Restful Web Services to interact with the **JPA** Objects created using ORM.
* We kept up bean life cycle by utilizing **Spring IOC** which keeps up session information of beans.
* Worked with **Log4J** to capture the log that includes runtime exceptions
* Implemented **IBM WebSphere** Application Server to deploy the application
* Worked on Web Technologies using **HTML, CSS, JavaScript, and AJAX**.
* Developed/Customized **Java Server Pages** (**JSP)** for Customer **User Interface (UI)**.
* Developed and implemented the MVC Architectural pattern using **STRUTS** framework including **JSP, Servlets,** and **EJB** and created **Stored Procedure**, **Trigger** for database access and events.
* Developed the business logic code in **Core Java/J2EE, Struts** and **JDBC.**
* Deployed Application using **Oracle Web logic Server.**
* Worked with **Struts** Framework in the application, which is based on MVC design pattern**.**

**Environment:** JAVA, J2EE, JSP, JSTL, Swing, JSP, HTML, CSS, Servlets, Struts, EJB, Web Logic, XML, JavaScript, java core like multithreading, collections, Interface and abstract classes, strings.